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State of Utah

DEPARTMENT OF NATURAL RESOURCES

Division of Oil, Gas & Mining

MICHAEL R. STYLER
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Division Director

Inspection Report Minerals Regulatory Program April 16, 2013

Reviewed: PPB

Mine Name: Topaz Mine	Permit Number: M/023/0003
Operator Name: Materion Natural Resources Company	Inspection Date: April 16, 2013
Inspector(s): Paul Baker, Leslie Heppler, Lynn Kunzler, Peter Brinton	Time: 10:30 am till 12:30 pm
Other Participants: John Wagner	Mine Status: ACT
Weather Condition: Temperature in 30's strong winds and over cast skies	Last Inspection: April 12, 2012
Bond Renewal Date: 12/01/2016	Bond Amount: \$1,398,000
Surface Ownership: Fee	Mineral Ownership: Fee/SITLA
Last Year of Production: 2013	Acreage: 271

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Bond/Bond Release	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Annual Fees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Annual Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Public Safety (shafts, adits, trash, signs, highwalls)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Protection of Drainages / Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Roads (maintenance, surfacing, dust control, safety)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Water Impoundments	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Re-vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purpose of Inspection:

The purpose of the inspection was to coordinate with the Permittee on amendment to the plan.

Inspection Summary:

The site was in good condition. The operator showed the Division the active pits and waste dumps as well as those that were in reclamation. The Permittee also showed the Division those areas that they intended to expand into.

The Rainbow waste rock dump, built across an existing drainage with a defined channel, was inspected to determine whether the dump impounds stormwater. No signs of impoundment were visible. Mr. Wagner reports that

stormwater impoundment is rare and drains quickly through the dump and ground (as reported in the plan). Waste rock will continue to be dumped in this drainage and that the end result will be the lack of an impoundment.

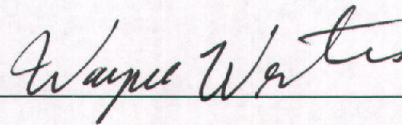
Vegetation on topsoiled portions of the dump is progressing well with few weeds. Dominant species include crested wheatgrass, fourwing saltbush, and Palmer penstemon.

We looked at vegetation at a site near the office where the operator may propose final release. Without taking quantitative cover measurements it was not possible to determine whether this area meets release criteria.

Conclusions and Recommendations:

The Division recommended that the operator apply for bond release on some reclaimed areas. Because vegetation was still dormant from the winter, the Division recommends a separate inspection when the vegetation cover can be measured quantitatively.

Inspector's Signature



WHW:

cc: John Wagner, Materion

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Stitched photo of the Rainbow waste rock dump